(12)

EUROPEAN PATENT APPLICATION

(88) Date of publication A3: 24.11.1999 Bulletin 1999/47

(51) Int Cl.6: H04M 3/30, H04M 1/24

- (43) Date of publication A2: 15.05.1996 Bulletin 1996/20
- (21) Application number: 95308134.6
- (22) Date of filing: 14.11.1995
- (84) Designated Contracting States:

 AT BE CH DE ES FR GB IE IT LI NL SE
- (30) Priority: 14.11.1994 US 340083
- (71) Applicant: HARRIS CORPORATION Melbourne, FL 32919 (US)
- (72) Inventors:
 - Horton, Michael D.
 Ojai, California 93023 (US)

- Schillaci, Onofrio Camarillo, California 93010 (US)
- Rischpater, Raymond William Felton, California 95018 (US)
- (74) Representative: van Berlyn, Ronald Gilbert 23, Centre Heights London NW3 6JG (GB)

(54) Trouble-shooting system for telephone system

A trouble-shooting mechanism is incorporated (57)into a telephone service technician's portable computer unit, to enable a craftsperson, to respond to a trouble ticket. By analyzing multiple sources of information, including user inputs from the craftsperson, parametric data embedded in the trouble ticket, test data obtained through the execution of local tests, and remote test data, the trouble-shooting mechanism derives and suggests a problem solving strategy that is appears accurate. The system architecture includes a trouble-shooting application engine, and an associated set of databases, one of which is a knowledge database, and the other of which is a shared, parameter database. The knowledge database contains rules and static parameters which define the characteristics and behavior of the application engine. These rule sets and information are telephone line trouble-shooting specific.

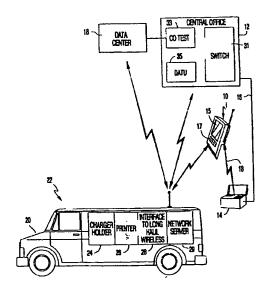


FIG. 1



EUROPEAN SEARCH REPORT

Application Number EP 95 30 8134

DOCUMENTS CONSIDERED TO BE RELEVANT CLASSIFICATION OF THE APPLICATION (Int.Cl.5) Citation of document with indication, where appropriate, Relevant Category of relevant passages to claim US 4 922 516 A (BUTLER MYRON C ET AL) 1,6,8 H04M3/30 1 May 1990 (1990-05-01)
* abstract * H04M1/24 * column 7, line 6 - column 8, line 6 * US 4 841 560 A (CHAN AARON ET AL) 20 June 1989 (1989-06-20) US 4 977 399 A (PARK DANIEL J ET AL) 11 December 1990 (1990-12-11) TECHNICAL FIELDS SEARCHED (Int.CL6) H04M The present search report has been drawn up for all claims Date of completion of the search Place of search THE HAGUE 4 October 1999 Megalou, M T: theory or principle underlying the invertion E: earlier patent document, but published on, or after the filing date
D: document cited in the application
L: document cited for other reasons CATEGORY OF CITED DOCUMENTS X : particularly relevant if taken alone
 Y : particularly relevant if combined with enother occurrent of the same category
 A : technological background
 O : non-written disclosure
 P : intermediate document & : member of the same patent family, corresponding document

ANNEX TO THE EUROPEAN SEARCH REPORT ON EUROPEAN PATENT APPLICATION NO.

EP 95 30 8134

This arms lists the patent family members relating to the patent documents cited in the above-mentioned European search report. The members are as contained in the European Patent Office EDP file on The European Patent Office is in no way liable for these particulars which are morely given for the purpose of information.

04-10-1999

	1-05-1990 0-06-1989	US CA EP	4837811 A 1299788 A	06-06-19
US 4841560 A 26	D-06 - 1989		0326366 A	28-04-19 02-08-19
		CA EP GB IN WO	1294076 A 0335956 A 2217954 A,B 170646 A 8903622 A	07-01-19 11-10-19 01-11-19 25-04-19 20-04-19
US 4977399 A 11	1-12-1990	AU EP JP WO	4223689 A 0428619 A 4501791 T 9001855 A	05-03-19 29-05-19 26-03-19 22-02-19

o For more details about this annex : see Official Journal of the European Patent Office, No. 12/82